

# Solution Code

```
import java.util.*;
import java.io.*;
import java.util.Scanner;

public class EvilNumberExample {
    public static boolean checkNumber(int n) {

        long binaryNumber = convertToBinary(n);
        int count = 0;
        while(binaryNumber != 0) {

            // if the last digit of binary number is 1, increase the count value
            if(binaryNumber % 10 == 1)
                count++;
            binaryNumber = binaryNumber / 10;
        }

        if(count % 2 == 0)
            return true; //return true when the value of count is even
        return false;
    } private static long convertToBinary(int number) {
        long binaryNumber = 0;
        int rem = 0;
        int j = 1;
```

# Solution Code

```
while(number != 0) {
    rem = number % 2;
    binaryNumber += rem * j;
    number = number / 2;
    j = j * 10;
}

return binaryNumber;
}

public static void main(String[] args) {
int num = 0;

Scanner sc = new Scanner(System.in);
System.out.print("Enter a number : ");
num = sc.nextInt();
if(checkNumber(num))
    System.out.println(num + " is an evil number");
else
    System.out.println(num + " is not an evil number");

}
}
```